MITSUBISHI MOTOR SALES OF AMERICA, Inc.

TECHNICAL SERVICE BULLETIN

SUBJECT:

IGNITION TIMING ADJUSTMENT ON 4G61 AND 4G63 DOHC ENGINES, 6G72 ENGINE

NO. TSB-89-16-004

DATE July, 1989

MODEL Mirage, Galant, Eclipse, Montero, Sigma V6

TSB Revision 89-16-004

PURPOSE

This bulletin describes a change to the ignition timing adjustment and inspection procedures on fuel injected vehicles that make use of the stepper motor type idle speed control. Whenever the ignition timing is being adjusted or checked for base timing, the Multi-Use Tester must be disconnected from the diagnostic connector. As a reference to this bulletin, please make the changes shown and write the TSB number in the TSB Revision box at the bottom of the affected Service Manual pages.

DETAILS OF CHANGE

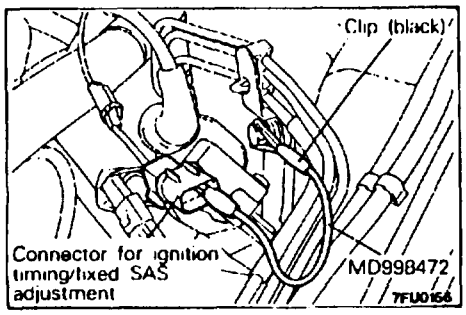
To check or adjust ignition timing on MPI-equipped vehicles, the ignition timing adjustment connector must be grounded. This fixes the timing to a base value. On vehicles whose MPI system employs a stepper motor to control idle speed, plugging in the Multi-Use Tester grounds a terminal in the diagnostic connector under the dash. This forces the MPI control unit to control base idle speed and stepper motor position, and override the timing adjustment connector. Therefore the Multi-Use Tester or ground wire must be disconnected from the diagnostic connector to set base timing.

SERVICE MANUALS AFFECTED

1989 Mirage Service Manual Volume 2, Page 8-176
1989 Sigma V6 Service Manual Volume 2, Page 8-162
1990 Eclipse Service Manual Volume 2, Page 8-165
1989 Galant Service Manual Volume 2, Page 8-217
1989 Montero Service Manual Volume 1, Page 14-63
Volume 2, Page 8-147

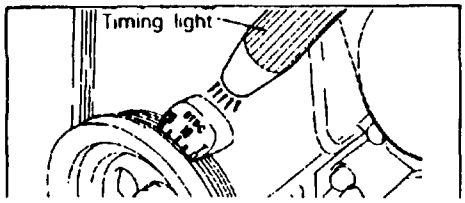
SERVICE MANUAL CORRECTION

(1989 Sigma V6 shown, typical)



4. With the engine stopped, connect a lead wire with alligator clips to the terminal for ignition-timing adjustment (located in the engine compartment), and ground it.

NOTE: Make sure the Multi-Use Tester or ground wire has been disconnected from the diagnostic connector!



5. Start and run the engine at curb idle speed.
6. Check basic ignition timing and adjust if necessary.

Basic ignition timing : 5°BTDC

FILE UNDER: Group 16 Engine Electrical in the Dealer Service Information Binder.

CIRCULATE TO: ☐ GENERAL MANAGER ☐ PARTS MANAGER ☐ TECHNICIAN (694)
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